

**WEST**

Generate Collection

Print

**Search Results - Record(s) 1 through 3 of 3 returned.****1. Document ID: US 20020017222 A1**

L9: Entry 1 of 3

File: PGPB

Feb 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020017222  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020017222 A1

TITLE: Strengthened, light weight construction board

PUBLICATION-DATE: February 14, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Luongo, Joseph S.	Kingman	AZ	US	

US-CL-CURRENT: 106/611; 106/631

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw Desc	Image										

**2. Document ID: US 20010001218 A1**

L9: Entry 2 of 3

File: PGFB

May 17, 2001

PGPUB-DOCUMENT-NUMBER: 20010001218  
PGPUB-FILING-TYPE: new-utility  
DOCUMENT-IDENTIFIER: US 20010001218 A1

TITLE: Strengthened, light weight construction board and method and apparatus for making the same

PUBLICATION-DATE: May 17, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Luongo, Joseph S.	Kingman	AZ	US	

US-CL-CURRENT: 264/42; 155/346, 156/42, 156/43, 156/44, 156/45, 264/135, 264/261, 264/333, 264/45.6, 425/308, 425/4C, 425/404, 425/449, 428/305.5, 428/307.3, 428/307.7, 428/308.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

**3. Document ID: US 5155959 A**

L9: Entry 3 of 3

File: USPT

Oct 20, 1992

US-PAT-NO: 5155959

DOCUMENT-IDENTIFIER: US 5155959 A

TITLE: Firedoor constructions including gypsum building product

DATE-ISSUED: October 20, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Richards; Turner W.	Conyers	GA		
Francis; Hubert C.	Lithonia	GA		
Fowler; George F.	Norcross	GA		

US-CL-CURRENT: 52/455; 106/732, 106/772, 428/921, 52/309.12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWWC

Generate Collection

Print

Term	Documents
COMPOSITION,DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1465519
COMPSN DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	449349
COMPSNS DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	113697
COMPOSITIONS DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	496756
BOARD DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	821933
BOARDS DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	199954
PERLITE DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	10602
PERLITES DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	204
CALCIUM DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	382260
CALCIUMS DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	72
CALCIA DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	3383
(COMPOSITION NEAR BOARD AND PERLITE AND CALCIUM (SULFATE OR SULPHATE) AND BINDER AND (POLYVINYL ACETATE OR VINYL ACETATE OR ACRYLIC OR URETHANE) [CLM]) USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3

There are more results than shown above. Click here to view the entire set

Display Format: -

Change Format

[Previous Page](#)[Next Page](#)

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)[Cases](#)**Search Results -**

Term	Documents
COMPOSITION DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1465519
COMPSN DWPI,TDBD,EPAB,JPAB,USPT,PGPB	449349
COMPSNS DWPI,TDBD,EPAB,JPAB,USPT,PGPB	113697
COMPOSITIONS DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	496756
BOARD DWPI,TDBD,EPAB,JPAB,USPT,PGPB	821933
BOARDS DWPI,TDBD,EPAB,JPAB,USPT,PGPB	199954
PERLITE.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	10602
PERLITES.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	204
CALCIUM.DWPI,TDBD,EPAB,JPAB,USPT,PGPB	382260
CALCIUMS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	72
CALCIA.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	3383
(COMPOSITION NEAR BOARD AND PERLITE AND CALCIUM (SULFATE OR SULPHATE) AND BINDER AND (POLYVINYL ACETATE OR VINYL ACETATE OR ACRYLIC OR URETHANE) [CLM]) USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3

There are more results than shown above [Click here to view the entire set](#)

Database:

☐ US Patents Full-Text Database  
☐ US Pre-Grant Publication Full-Text Database  
☐ JPO Abstracts Database  
☐ EPO Abstracts Database  
☐ Derwent World Patents Index  
☐ IBM Technical Disclosure Bulletins

Search:

L9

[Refine Search](#)[Recall Text](#)[Clear](#)**Search History**

DATE: Wednesday, February 19, 2003   [Printable Copy](#)   [Create Case](#)

**Set Name   Query**  
side by side

**Hit Count   Set Name**  
result set

*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L9</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder and (polyvinyl acetate or vinyl acetate or acrylic or urethane) [clm]	3	<u>L9</u>
<u>L8</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder and (polyvinyl acetate or vinyl acetate or acrylic or urethane) [ab]	1	<u>L8</u>
<u>L7</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder and (polyvinyl acetate or vinyl acetate or acrylic or urethane) [ti]	0	<u>L7</u>
<u>L6</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder and (polyvinyl acetate or vinyl acetate or acrylic or urethane)	9	<u>L6</u>
<u>L5</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder	12	<u>L5</u>
<u>L4</u>	composition near board and perlite and calcium (sulfate or sulphate)	16	<u>L4</u>
<u>L3</u>	composition near board and perlite	71	<u>L3</u>
<u>L2</u>	composition near board	1400	<u>L2</u>
<u>L1</u>	board	878562	<u>L1</u>

END OF SEARCH HISTORY

Art Unit: 1711

1. Claims under examination are 1-5
2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Squiller et al (USP 6103849) in view of Okuno et al (USP 4562237) and Konig et al (USP 6060573).

Squiller discloses one-component polyurethane compositions made up of (a) blocked isocyanate, (b) polyketimine, polyenamine or oxazolidine and (c) a compound that generates water (abstract). Some isocyanate-reactive compounds are set forth in col. 6, lines 442 and they read on the (claimed) off-containing polymeric compound (viz (ii) of instant claim 1). Squiller does not mention (i) a polyisocyanate which is blocked by CH-acidic ester and (ii) a tetravalent titanium compound.

**Set Name Query**

side by side

**Hit Count Set Name**

result set

*DB=-USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=-ADJ*

<u>L16</u>	sodium near3 tri near3 metaphosphate and composition and board	0	<u>L16</u>
<u>L15</u>	L13 and l2	0	<u>L15</u>
<u>L14</u>	L13 and l1	1	<u>L14</u>
<u>L13</u>	sodium near3 tri near3 metaphosphate	44	<u>L13</u>
<u>L12</u>	L10 and l1	0	<u>L12</u>
<u>L11</u>	L10 and l2	0	<u>L11</u>
<u>L10</u>	sodium near tri near metaphosphate	15	<u>L10</u>
<u>L9</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder and (polyvinyl acetate or vinyl acetate or acrylic or urethane) [clm]	3	<u>L9</u>
<u>L8</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder and (polyvinyl acetate or vinyl acetate or acrylic or urethane) [ab]	1	<u>L8</u>
<u>L7</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder and (polyvinyl acetate or vinyl acetate or acrylic or urethane) [ti]	0	<u>L7</u>
<u>L6</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder and (polyvinyl acetate or vinyl acetate or acrylic or urethane)	9	<u>L6</u>
<u>L5</u>	composition near board and perlite and calcium (sulfate or sulphate) and binder	12	<u>L5</u>
<u>L4</u>	composition near board and perlite and calcium (sulfate or sulphate)	16	<u>L4</u>
<u>L3</u>	composition near board and perlite	71	<u>L3</u>
<u>L2</u>	composition near board	1400	<u>L2</u>
<u>L1</u>	board	878562	<u>L1</u>

END OF SEARCH HISTORY